

## Miniature Temperature Sensors

## For miniature bearing and babbitt bearing applications

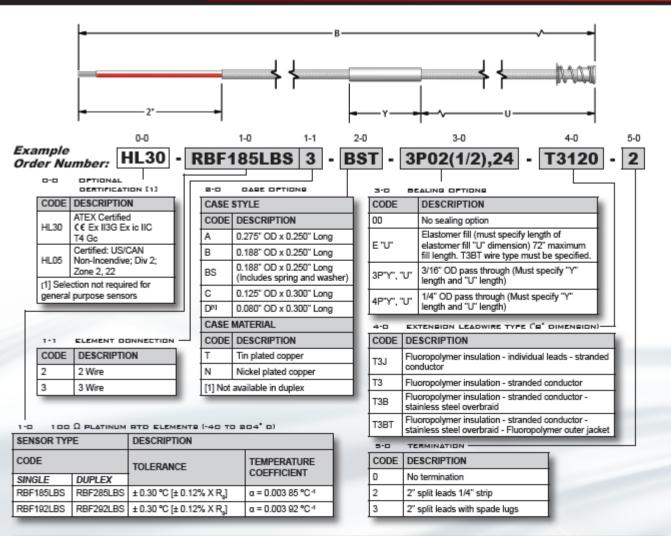
- General purpose designs
- ATEX Certified designs
- CSA US/CAN Non-Incendive Certified designs
- Supplied in multiple case styles
- Custom designs on request
- Rugged construction
- RTD and Thermocouple Types available
- Pass throughs, elastomer fill and accessories
- Standard four day delivery
- Application proven





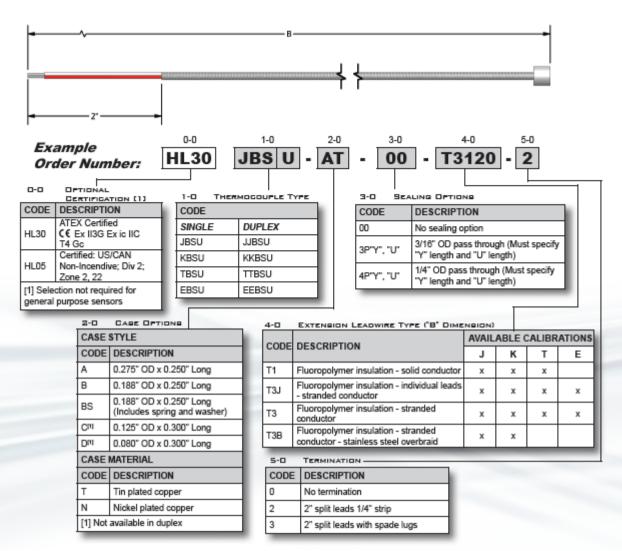
Pyromation's miniature sensors are designed to measure the critical temperature of the metal bearing shoes operating in generators, turbines and other rotating equipment. Monitoring the bearing temperature of rotating equipment is very important in preventing machine failures caused by the breakdown of the lubricating oil when it becomes too hot. Pyromation not only provides a cost-effective line of miniature sensors for these applications, they have experienced sales and engineering support available to assist you in finding the best way to measure temperature in your equipment.





100 $\Omega$ Platinum RTD $\alpha = 0.00385 ^{\circ}\text{C}^{-1}$ $\alpha = 0.00392 ^{\circ}\text{C}^{-1}$		CASE STYLE A		CASE STYLE B		CASE STYLE C		CASE STYLE D	
		Ø 0.275" OD x 0.250" L		Ø 0.188" OD x 0.250" L Flange 0.250" OD x 0.030" L		Ø 0.125" OD x 0.300" L		Ø 0.080" OD x 0.300" L	
CODE	DESCRIPTION	Single	Duplex	Single	Duplex	Single	Duplex	Single	Duplex
тзл	Fluoropolymer insulation - individual leads - stranded conductor	2 or 3 wire 24 AWG	2 or 3 wire 28 AWG	2 or 3 wire 24 AWG	2 or 3 wire 28 AWG	2 or 3 wire 28 AWG	2 or 3 wire 28 AWG	2 or 3 wire 28 AWG	N/A
тз	Fluoropolymer insulation - stranded conductor	2 or 3 wire 24 AWG	2 or 3 wire 28 AWG	2 or 3 wire 24 AWG	2 or 3 wire 28 AWG	2 or 3 wire 28 AWG	2 or 3 wire 28 AWG	N/A	N/A
тзв	Fluoropolymer insulation - stranded conductor - stainless steel overbraid	2 or 3 wire 24 AWG	2 or 3 wire 28 AWG	2 or 3 wire 24 AWG	2 or 3 wire 28 AWG	2 or 3 wire 28 AWG	2 or 3 wire 28 AWG	N/A	N/A
тзвт	Fluoropolymer insulation - stranded conductor - stainless steel overbraid - Fluoropolymer outer jacket	2 or 3 wire 24 AWG	2 or 3 wire 28 AWG	2 or 3 wire 24 AWG	2 or 3 wire 28 AWG	2 or 3 wire 28 AWG	2 or 3 wire 28 AWG	N/A	N/A





Thermocouple Types J, K, T, E		Ø 0.275" OD x 0.250" L		Ø 0.188" OD x 0.250" L Flange 0.250" OD x 0.030" L		CASE STYLE C  Ø 0.125" OD x 0.300" L		Ø 0.080" OD x 0.300" L	
CODE	DESCRIPTION	Single	Duplex	Single	Duplex	Single	Duplex	Single	Duplex
T1	Fluoropolymer insulation - solid conductor	24 AWG	24 AWG	24 AWG	24 AWG	24 AWG	N/A	30 AWG	N/A
T3J	Fluoropolymer insulation - individual leads - stranded conductor	24 AWG	24 AWG	24 AWG	24 AWG	24 AWG	N/A	N/A	N/A
Т3	Fluoropolymer insulation - individual leads - stranded conductor	24 AWG	24 AWG	24 AWG	24 AWG	24 AWG	N/A	N/A	N/A
ТЗВ	Fluoropolymer insulation - stranded conductor - stainless steel overbraid	24 AWG	24 AWG	24 AWG	N/A	24 AWG	N/A	N/A	N/A

	Installation In	ISTRUCTIONS			
CASE STYLE	INSTALLATION	ILLUSTRATION			
А	Install sensor just below the babbitt layer – near bearing shoe surface, then puddle the babbitt metal over the sensor tip and smooth.	BASBITT DO 278-9 201 DO 278-9 2			
В	This sensor is designed with a spring and retaining washer that allows for spring loading. Slide the spring and washer over the leads. Insert the sensor tip into a hole bored into the bearing shoe and push down on the retaining ring to compress the spring and secure the sensor.	BABBITT [7.92mm±0.03] LAYER SENSOR SHOCE SPRING RETAINING WASHER			
C&D	Bore the sensor hole in the bearing shoe near, but not touching, the babbitt surface. Insert sensor and secure by potting/bonding with epoxy.	BABBITT LAYER SENSOR  8 + 0.005 [Differed]  LEACHWRE			

	Accessories					
1	PART NUMBER	DESCRIPTION	ILLUSTRATION			
	12920	Spring	QQQ			
	12919	Retaining Washer	Ø			
	10494	Retaining Ring				

## # SPEED, SERVICE, SOLUTIONS... BEYOND MEASURE®

Operating since 1962, Pyromation is the premier temperature sensor manufacturer in North America, From RTDs and thermocouples to thermowells. connection heads, transmitters, accessories and complete assemblies, Pyromation can make the right temperature sensor for your process and deliver it faster than anyone in the industry. A broad product line, industry experience, friendly customer service and quick delivery make Pyromation the best choice for your temperature measurement applications. For more information, please call us or visit www.pyromation.com.



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